

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/535,414A
Source: IFWP
Date Processed by STIC: 8/8/06

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IFWP

RAW SEQUENCE LISTING

DATE: 08/08/2006

PATENT APPLICATION: US/10/535,414A

TIME: 09:22:32

Input Set : A:\Q87920.ST25.txt

Output Set: N:\CRF4\08082006\J535414A.raw

3 <110> APPLICANT: SHARMA, Praveen
 4 SAHNI, Narinder Singh
 5 LONNEBORG, Anders
 7 <120> TITLE OF INVENTION: PRODUCT AND METHOD
 9 <130> FILE REFERENCE: Q87920
 11 <140> CURRENT APPLICATION NUMBER: US 10/535,414A
 12 <141> CURRENT FILING DATE: 2005-05-19
 14 <150> PRIOR APPLICATION NUMBER: PCT/GB03/05102
 15 <151> PRIOR FILING DATE: 2003-11-21
 17 <160> NUMBER OF SEQ ID NOS: 501
 19 <170> SOFTWARE: PatentIn version 3.3
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 405
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Homo sapiens
 26 <400> SEQUENCE: 1
 27 ggatcctgtg gccacagag ctgccccagc agacgctccg cccacccgg tgatggagcc 60
 29 ccgggggggac aatcgtgcct ggggaggagc aggggtacagc ccattccccc agccctggct 120
 31 gacctggcct agcagtttgg ccctgctggc cttagcaggg agacagggga gcaaagaacg 180
 33 ccaagccgga ggcccgaggc cagccggcct ctcgagagcc agagcagcag ttgaatgtaa 240
 35 tgctggggac aggcattgctg ccgccagtag ggcgggggacc cggacagcca ggtgactacc 300
 37 agtctctgggg acacactcac cataaacaca tccccaggca ggacagatcg ggggaaggggt 360
 39 gtgtaccagg ctatgatttc tcttgcatca aaatgtatta ttatt 405
 42 <210> SEQ ID NO: 2
 43 <211> LENGTH: 550
 44 <212> TYPE: DNA
 45 <213> ORGANISM: Homo sapiens
 48 <220> FEATURE:
 49 <221> NAME/KEY: misc_feature
 50 <222> LOCATION: (61)..(61)
 51 <223> OTHER INFORMATION: n is a, c, g, or t
 53 <220> FEATURE:
 54 <221> NAME/KEY: misc_feature
 55 <222> LOCATION: (464)..(464)
 56 <223> OTHER INFORMATION: n is a, c, g, or t
 58 <400> SEQUENCE: 2
 59 ggctttgaca gagtgcaaga cgatgacttg caaatgtcg catctggaac gcaacataga 60
 W--> 61 naccatcatc aacaccttcc accaatactc tgtgaagctg gggcaccag acaccctgaa 120
 63 ccaggggggaa ttcaaagagc tgggtgcgaaa agatctgcaa aattttctca agaaggagaa 180
 65 taagaatgaa aaggtcatag aacacatcat ggaggacctg gacacaaatg cagacaagca 240
 67 gctgagcttc gaggagttca tcatgctgat ggcgaggcta acctgggcct cccacgagaa 300
 69 gatgcacgag ggtgacgagg gccctggcca ccaccataag ccaggcctcg gggagggcac 360
 71 cccctaagac cacagtggcc aagatcacag tggccacggc cacggccaca gtcattggtg 420

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73 ccacggccac agccactaat caggaggcca ggccaccctg cctntaccca accagggccc 480
75 cggggcctgt tatgtcaaac tgtcttggtt gtggggctag gggctggggc caaataaagt 540
77 ctctttctcc 550
80 <210> SEQ ID NO: 3
81 <211> LENGTH: 423
82 <212> TYPE: DNA
83 <213> ORGANISM: Homo sapiens
85 <400> SEQUENCE: 3
86 acgaagacag acatctgttg aatgattcac atcctctcaa gttaggagga tggaggcctg 60
88 cttcattaag aagctggggg taggggtggg gtggggagaa cacttaacaa catggggacc 120
90 agtcagggga atccccctat ttctgttttg catatgagga accctagagc agccaggtga 180
92 ggctctctag ttttaataaaa atcatggaaa gactcttaat gcagactctt cttaagtgtt 240
94 aatagggtatt ttttcagctt attttggttg cagtttccaa tttttaaaaa tgttgaggta 300
96 atctttccca ccttcccaaa cctaattctt gtagatgcat tagtggtgaa ccaatgcttt 360
98 ctcatgtctc aattctttgt atatgcattc ttttcagatg tattaacaa acaaaaaccc 420
100 ttc 423
103 <210> SEQ ID NO: 4
104 <211> LENGTH: 286
105 <212> TYPE: DNA
106 <213> ORGANISM: Homo sapiens
109 <220> FEATURE:
110 <221> NAME/KEY: misc_feature
111 <222> LOCATION: (64)..(65)
112 <223> OTHER INFORMATION: n is a, c, g, or t
114 <400> SEQUENCE: 4
115 ccggtaatag aatagaaaag ggagagtgtc ttcatgcaat gtggcctcct ggattgggtc 60
W--> 117 tcgnnacaaa aacaggacat tagtgggaaa attggaaatc tgaaaaaagt ctgaatttta 120
119 gttaatatat caatttcagt ctcttggttt tgacagatgt accatggtga tgtaagatgt 180
121 tgaccttggg gtaggctggg tgaagggtat acaggaactc tttgtactat ctctgcaact 240
123 tctctgtaaa tctagtatca ttccaaaata aaagtttatt taattt 286
126 <210> SEQ ID NO: 5
127 <211> LENGTH: 545
128 <212> TYPE: DNA
129 <213> ORGANISM: Homo sapiens
131 <400> SEQUENCE: 5
132 gtggaagtga catcgtcttt aaaccctgcg tggcaatccc tgacgcaccg ccgtgatgcc 60
134 caggaagac agggcgacct ggaagtccaa ctacttcctt aagatcatcc aactattgga 120
136 tgattatccg aaatgtttca ttgtgggagc agacaatgtg ggctccaagc agatgcagca 180
138 gatccgcatg tcccttcgcg ggaaggctgt ggtgctgatg ggcaagaaca ccatgatgcg 240
140 caaggccatc cgagggcacc tggaaaacaa cccagctctg gagaaactgc tgcctcatat 300
142 ccgggggaat gtgggctttg tgttcaccaa ggaggacctc actgagatca gggacatggt 360
144 gctggccaat aaggtgccag ctgctgcccg tgctggtgcc attgccccat gtgaagtcac 420
146 tgtgccagcc cagaacactg gtctcgggcc cgagaagacc tcctttttcc aggccttagg 480
148 taccaccact aaaatctcca ggggcaccat tgaaatcctg agtgatgtgc actgatcaag 540
150 actgg 545
153 <210> SEQ ID NO: 6
154 <211> LENGTH: 591
155 <212> TYPE: DNA
156 <213> ORGANISM: Homo sapiens

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159 <220> FEATURE:
160 <221> NAME/KEY: misc_feature
161 <222> LOCATION: (85)..(85)
162 <223> OTHER INFORMATION: n is a, c, g, or t
164 <220> FEATURE:
165 <221> NAME/KEY: misc_feature
166 <222> LOCATION: (485)..(485)
167 <223> OTHER INFORMATION: n is a, c, g, or t
169 <400> SEQUENCE: 6
W--> 170 cagcgcaggg gcttctgctg agggggcagg cggagcttga ggaaaccgca gataagtttt      60
172 ttctctctttg aaagatagag attgntacaa ctacttaaaa aatatagtca ataggttact      120
174 aagatattgc ttagcggttaa gtttttaacg taattttaat agcttaagat ttttaagagaa      180
176 aatatgaaga cttagaagag tagcatgagg aaggaaaaga taaaagggtt ctaaaacatg      240
178 acggagggtt agatgaagct tcttcatgga gtaaaaaatg tatttaaaag aaaattgaga      300
180 gaaaggacta cagagccccg aattaatacc aatagaaggg caatgctttt agattaaaat      360
182 gaagggtgact taaacagctt aaagtttagt ttaaaagttg taggtgatta aaataatttg      420
184 aaggcgatct tttaaaaaga gattaaaccg aagggtgatta aaagaccttg aaatccatga      480
186 cgcanggaga attgcgcatt taaagcctag ttacgcattt actaaacgca gacgaaaatg      540
188 ggaagattaa ttgggagtggt taggatgaaa caatttttga gaagatagaa g              591
191 <210> SEQ ID NO: 7
192 <211> LENGTH: 297
193 <212> TYPE: DNA
194 <213> ORGANISM: Homo sapiens
196 <400> SEQUENCE: 7
197 ctcaaaggag aaaaaaaacc ttgtaaaaaa agcaaaaatg acaacagaaa aacaatctta      60
199 ttccgagcat tccagtaact tttttgtgta tgtacttagc tgtactataa gtagttgggt      120
201 tgtatgagat ggtaaaaaag gccaaagata aaagggtttct ttttttttcc ttttttgtct      180
203 atgaagttgc tgtttatttt ttttggcctg tttgatgtat gtgtgaaaca atgttgtcca      240
205 acaataaaca ggaattttat tttgctgagt tgttctaaaa aaaaaaaaaa aaaaaaa      297
208 <210> SEQ ID NO: 8
209 <211> LENGTH: 282
210 <212> TYPE: DNA
211 <213> ORGANISM: Homo sapiens
213 <400> SEQUENCE: 8
214 agtagagacg gggtttctact gtgttagcca ggatggtctc gatctcctga cctcgtgatc      60
216 cgccacctc ggccctcccg aagtgtctgg attacaggcg tgagccacgg cgccagccc      120
218 cagcctgtca cttaaactga taaacgacag attaacagta gaaaaatttt attttgcata      180
220 cataatgagg cttcacaaaa gagaagtga aaccaagta ggagtttagg gctgggggct      240
222 tatataccat ttaacaagg gtgataaatt gtaagagaat ag              282
225 <210> SEQ ID NO: 9
226 <211> LENGTH: 619
227 <212> TYPE: DNA
228 <213> ORGANISM: Homo sapiens
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233 gtaacagggt ccattgttac tgtaactttt cacacatgcc ttcagtttga tgtcaaagtc      120
235 atcatttagt gtaaacagca agttatctgt taggctgcac atcatgaact ttacttttag      180
237 aaagtcttat cttttatgcc acagaaatag catttggtta ttagtcatgg atggcaaaga      240
239 aattaatttt gagttgtttg gataaaaatg tttcagttga ctgtagtgtg tattgagaga      300

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241 cactgccagt aaacaaactc tcttggtagg tggaaatccc ctagaagtta cagaaaattg 360
243 ggaggagggtg aacttaatta aataacttga attgtttaga catattcaga gcttcttatg 420
245 accttgaaga aatcacccaa cttcaaaaga cctcggtttc ttcatttgta aaattaggga 480
247 gtttgactag atgtgtaaat ctagtgtgta gttaacttct aagatgtaaa aaccctcttg 540
249 tttaacaaaa acctacaaga tcaagttgct tatctgaaat ctttatgaat caacactagt 600
251 cactaagtct agctcgacc 619
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255 <211> LENGTH: 536
256 <212> TYPE: DNA
257 <213> ORGANISM: Homo sapiens
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261 <221> NAME/KEY: misc_feature
262 <222> LOCATION: (513)..(513)
263 <223> OTHER INFORMATION: n is a, c, g, or t
265 <220> FEATURE:
266 <221> NAME/KEY: misc_feature
267 <222> LOCATION: (520)..(520)
268 <223> OTHER INFORMATION: n is a, c, g, or t
270 <220> FEATURE:
271 <221> NAME/KEY: misc_feature
272 <222> LOCATION: (529)..(529)
273 <223> OTHER INFORMATION: n is a, c, g, or t
275 <400> SEQUENCE: 10
276 cttttctctc cgctgtcccc cacggagggg actgctctcc cccgctgcat cctttctgtg 60
278 aggtacctta cccacctcag cacctgagag ggtgaaatag aattctaacc tcgacattcg 120
280 ggaagtgttt ttgagaagtc tcggtcggtg aggggaagtct tccaagtccg tgcagcacta 180
282 acgtattggc acctgcctcc tcttcggcca cccccagat gaggcagctg tgactgtgtc 240
284 aaggggaagcc acgactctga ccatagtctt ctctcagctt ccactgccgt ctccacagga 300
286 aaccagaag ttctgtgaac aagtccatgc tgccatcaag gcatttattg cagtgtacta 360
288 tttgcttcca aaggatcagg ccctgagaac aatgacctta tttctacaa cagtgtctgg 420
290 gttgcgtgcc agcagatgcc tcagatacca agagataaca aagctgcagc tcttttgatg 480
W--> 292 ctgaccaaga atgtggattt tgtgaaggat gcncatgaan aaatggacna gctgtg 536
295 <210> SEQ ID NO: 11
296 <211> LENGTH: 373
297 <212> TYPE: DNA
298 <213> ORGANISM: Homo sapiens
301 <220> FEATURE:
302 <221> NAME/KEY: misc_feature
303 <222> LOCATION: (27)..(27)
304 <223> OTHER INFORMATION: n is a, c, g, or t
306 <220> FEATURE:
307 <221> NAME/KEY: misc_feature
308 <222> LOCATION: (235)..(235)
309 <223> OTHER INFORMATION: n is a, c, g, or t
311 <220> FEATURE:
312 <221> NAME/KEY: misc_feature
313 <222> LOCATION: (248)..(248)
314 <223> OTHER INFORMATION: n is a, c, g, or t
316 <220> FEATURE:

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317 <221> NAME/KEY: misc_feature
318 <222> LOCATION: (329)..(329)
319 <223> OTHER INFORMATION: n is a, c, g, or t
321 <220> FEATURE:
322 <221> NAME/KEY: misc_feature
323 <222> LOCATION: (335)..(335)
324 <223> OTHER INFORMATION: n is a, c, g, or t
326 <220> FEATURE:
327 <221> NAME/KEY: misc_feature
328 <222> LOCATION: (359)..(359)
329 <223> OTHER INFORMATION: n is a, c, g, or t
331 <220> FEATURE:
332 <221> NAME/KEY: misc_feature
333 <222> LOCATION: (372)..(372)
334 <223> OTHER INFORMATION: n is a, c, g, or t
336 <400> SEQUENCE: 11
W--> 337 aagtgggtct tgccatccct gaactgnaat catccctaac atattcatac ctgttttcat      60
339 tttaaaagtt gggtcagttt ttttattagt acatgtattt ctatcctact gatttatttg      120
341 ctatatcatc taatttagtt tgaatattcc ataatttact taattagtcc tgtatggaga      180
343 cctagctctt ctcagtgtct actattataa acaatgctac agtgaatatt ggtgnataaa      240
345 tccatacnca ccacgtacat atcttaagtt ctggaagaga tattgctaaa ccagaagata      300
347 acctgcattt aaaatttgac tgctagggnc agggncacat ttaattaaat tagaacaang      360
349 aatgcataat gnc
352 <210> SEQ ID NO: 12
353 <211> LENGTH: 796
354 <212> TYPE: DNA
355 <213> ORGANISM: Homo sapiens
358 <220> FEATURE:
359 <221> NAME/KEY: misc_feature
360 <222> LOCATION: (601)..(601)
361 <223> OTHER INFORMATION: n is a, c, g, or t
363 <400> SEQUENCE: 12
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366 taggcaatct gaaggaaacc agaaaatgtg aatttctctt cctcaaaaaa gctatactga      120
368 agtagtattt aatattcaag tacttgtaaa ttgacagaac agtacttttt aatttgaccc      180
370 atgaattcta tttaaatttg tcaacttaata tttagccaag aagcaaacca tctaaaaaga      240
372 tttctggttt atttctccaa ctccctaataa ataggggtcac atatttttta acttttttct      300
374 aatttgaaaa gtaatacagg catatgggtat tttaaaaatg aaacaacaca aagggatatg      360
376 ttttgaaaag tggctctggc atccctgaac tgtaatcatc cctaacatat tcatacctgt      420
378 tttcatttta aaagttgggt cagttttttt attagtagat gtatttctat cctactgatt      480
380 tatttgctat atcatcta attagtttgaa tattccataa tttacttaat tagtcctgta      540
382 tggagacctg gctcttctca gtgtctacta ttataaacia tgctacagtg aatattgggtg      600
W--> 384 nataaatcct acacaccacg taacatatct taagttcctg gaagagatat tgctaaacca      660
386 gaagataacc tgcatttaaa atttgactgc tagggtcagg gtcacattta aattaaatta      720
388 gaacaaggaa tgcataatgt ctccgatagc aatctattca aggtgcaccg tggtcacaaa      780
390 ggaaagcaaa actgtc
393 <210> SEQ ID NO: 13
394 <211> LENGTH: 564
395 <212> TYPE: DNA

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 61,464
Seq#:4; N Pos. 64,65
Seq#:6; N Pos. 85,485
Seq#:10; N Pos. 513,520,529
Seq#:11; N Pos. 27,235,248,329,335,359,372
Seq#:12; N Pos. 601
Seq#:13; N Pos. 6,26,55,73,99,100,180,228,486
Seq#:15; N Pos. 149,177,463
Seq#:20; N Pos. 557
Seq#:22; N Pos. 199
Seq#:24; N Pos. 149,177,463
Seq#:25; N Pos. 388,506,672
Seq#:26; N Pos. 524
Seq#:28; N Pos. 213,306
Seq#:31; N Pos. 448,617,663,677,706,710
Seq#:32; N Pos. 53,89
Seq#:34; N Pos. 5,8,21,25,65,79,80,103,143,481
Seq#:35; N Pos. 6
Seq#:36; N Pos. 525
Seq#:42; N Pos. 119,121,157,205,214,216,229,252,327,329,354,361
Seq#:45; N Pos. 304
Seq#:47; N Pos. 7
Seq#:55; N Pos. 462
Seq#:57; N Pos. 571
Seq#:63; N Pos. 441
Seq#:65; N Pos. 270,280,310,359
Seq#:66; N Pos. 195,201
Seq#:67; N Pos. 606
Seq#:68; N Pos. 92,642
Seq#:69; N Pos. 44
Seq#:70; N Pos. 684,707,709,713,723,734,746,748
Seq#:71; N Pos. 8
Seq#:73; N Pos. 280,342,500
Seq#:74; N Pos. 552
Seq#:76; N Pos. 461,483,497
Seq#:77; N Pos. 567,575
Seq#:84; N Pos. 223,280,297,302,337
Seq#:85; N Pos. 9,29,49,94,105,152,169
Seq#:88; N Pos. 529,542,559
Seq#:93; N Pos. 70,75,88,102,114,127,129
Seq#:95; N Pos. 650,685
Seq#:96; N Pos. 204,255
Seq#:97; N Pos. 248,519
Seq#:98; N Pos. 425

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Seq#:99; N Pos. 552
Seq#:101; N Pos. 565,581
Seq#:102; N Pos. 86,168,230,241,257,337,339
Seq#:103; N Pos. 20,22,47,546,562,611,645
Seq#:107; N Pos. 708
Seq#:109; N Pos. 600
Seq#:110; N Pos. 616,635

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L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:60
M:341 Repeated in SeqNo=2
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:60
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:60
M:341 Repeated in SeqNo=6
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:480
L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:600
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
M:341 Repeated in SeqNo=13
L:502 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:120
M:341 Repeated in SeqNo=15
L:641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:540
L:697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:180
L:771 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:120
M:341 Repeated in SeqNo=24
L:822 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:360
M:341 Repeated in SeqNo=25
L:863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:480
L:914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:180
M:341 Repeated in SeqNo=28
L:1042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:420
M:341 Repeated in SeqNo=31
L:1072 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
M:341 Repeated in SeqNo=32
L:1168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
M:341 Repeated in SeqNo=34
L:1203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:1254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:480
L:1411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:60
M:341 Repeated in SeqNo=42
L:1496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:300
L:1536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:1764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:420
L:1826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:540
L:1988 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:420
L:2055 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:240
M:341 Repeated in SeqNo=65
L:2085 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:180
L:2120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:600
L:2142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:60
M:341 Repeated in SeqNo=68
L:2175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:0
L:2267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:660
M:341 Repeated in SeqNo=70
L:2284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0
L:2342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:240

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Output Set: N:\CRF4\08082006\J535414A.raw

M:341 Repeated in SeqNo=73

L:2383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:540